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110	3	UBPART L: DE-ICING AGENT STORAGE AND HANDLING UNITS
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112	Section	A mali not : 1144
113	615.721	Applicability
114	615.722	Groundwater Monitoring
115	615.723	Design and Operating Requirements
116	615.724	Closure
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118		TY: Implementing and authorized by Sections 5, 14.4, 21, 22, and 27 of the
119	Environmen	tal Protection Act [415 ILCS 5/5, 14.4, 21, 22, and 27].
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121		Adopted in R89-5 at 16 Ill. Reg. 1538, effective January 10, 1992; amended in R92-
122		Reg. 1871, effective January 28, 1993; amended in R96-18 at 21 Ill. Reg. 6503,
123	effective Ma	y 8, 1997; amended in R18-26 at 47 Ill. Reg, effective
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125		SUBPART A: GENERAL
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127	Section 615	.101 Purpose
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This Part <u>specifies the prescribes</u> requirements and standards for the protection of groundwater

130 for certain types of existing facilities or units located wholly or partially within a setback zone 131 regulated by the Act or within a regulated recharge area underas delineated pursuant to Section 132 17.4 of the Act and 35 Ill. Adm. Code 617. 133 134 (Source: Amended at 47 Ill. Reg. \_\_\_\_\_\_, effective \_\_\_\_\_\_) 135 **Section 615.102 Definitions** 136 137 138 Except as stated in this Section, and unless a different meaning of a word or term is clear from 139 the context, the definitions of words or terms in this Part are shall be the same as those used in the 140 Act or the Illinois Groundwater Protection Act [415 ILCS 55]: 141 142 "Above-ground storage tank" means a storage tank that is not an underground 143 storage tank. 144 145 "Act" means the Environmental Protection Act [415 ILCS 5]. 146 147 "Agency" means the Illinois Environmental Protection Agency. 148 149 "Board" means the Illinois Pollution Control Board. 150 151 "Certification" means a statement of professional opinion based upon knowledge 152 and belief. 153 154 "Community Water Supply" means a public supply which serves or is intended to 155 serve at least 15 service connections used by residents or regularly serves at least 156 25 residents. [415 ILCS 5/3.145](Section 3.05 of the Act) 157 158 "Compliance point" means any point in groundwater designated at 35 Ill. Adm. 159 Code 620.Subpart B as a Class I through III groundwater at which a contaminant 160 released from the unit could pass underneath the unit boundary. There may be more than one compliance point for a particular unit. 161 162 163 "Commencement of construction" means that all necessary federal, State, and local approvals have been obtained, and work at the site has been initiated and 164 165 proceeds in a reasonably continuous manner to completion. [415 ILCS 166 5/3.50](Section 3.58 of the Act) 167 168 "Container" means any portable device (including, but not limited to, 55-gallon 169 drums) in which material is stored, treated, disposed of, or otherwise handled. 170 The term "container" does not include a vehicle used to transport material. 171 172 "Containerized" means being in a container.

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"Contaminant" <u>means is</u> any solid, liquid, or gaseous matter, any odor, or any form of energy, from whatever source. [415 ILCS 5/3.165] (Section 3.06 of the Act)

"Contamination" or "contaminate", when used in connection with groundwater, means water pollution of such groundwater. [415 ILCS 5/3.170](Section 3.63 of the Act)

"Date of first applicability" means <u>January 10, 1992</u>, the effective date of this Part for any unit located within a minimum setback zone, except that:

If a unit is first incorporated into any setback zone by an ordinance or regulation that establishes a maximum setback zone, the date of first applicability is <u>January 10, 1992</u>, the effective date of this <u>Part</u> or the effective date of the ordinance or regulation that establishes the maximum setback zone, whichever is later; or

If a unit is located in a part of a regulated recharge area that was not previously part of a setback zone, the date of first applicability is the effective date of the regulation that establishes the regulated recharge area.

"De-Icing agent" means a chemical used for de-icing, including but not limited to sodium chloride and calcium chloride. Sand, ashes, or other abrasive materials that do not alter the freezing point of water are not de-icing agents.

"Detection" means the identification of a contaminant in a sample at a value equal to or greater than the:

"Method Detection Limit" or "MDL", which means the minimum measured concentration of a substance that can be measured as reported with 99 percent confidence that the measured concentration is distinguishable from the method blank results under 40 CFR 136, Appendix B, true value is greater than zero pursuant to 56 Fed. Reg. 3526-3397 incorporated by reference at Section 615.103; or

"Method Quantitation Limit" or "MQL", which means the minimum concentration of a substance that can be measured and reported according pursuant to "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", incorporated by reference at Section 615.103.

"Dike" means an embankment or ridge of either natural or manmade materials

used to prevent the movement of liquids, sludges, solids, or other materials.

218 "Discharge" means the accidental or intentional spilling, leaking, pumping, 219 pouring, emitting, emptying, or dumping of any material onto or on any land or 220 water. 221 222 "Disposal" means the discharge, deposit, injection, dumping, spillage, leaking, or 223 placing of any waste or hazardous waste into or on any land or water or into any 224 well so that such waste or hazardous waste or any constituent thereof may enter 225 the environment or be emitted into the air or discharged into any waters, 226 including groundwaters. [415 ILCS 5/3.185](Section 3.08 of the Act) 227 228 "Existing unit" means a unit that was in operation or for which there is 229 commencement of construction on or before the date of first applicability, except 230 that a unit is not an existing unit if the unit: 231 232 Expands laterally beyond the currently permitted boundary, or the unit 233 boundary if the unit is not permitted, in existence after the date of first 234 applicability; or 235 236 Is part of a facility that undergoes major reconstruction after the date of 237 first applicability; or 238 239 Reopens at any time after having submitted a certification of closure to the 240 Agency. 241 242 "Facility" means all contiguous land and structures, other appurtenances, and 243 improvements on the land used for the treating, storing, handling, or disposal of any material which causes that unit to be regulated under this Part. A facility may 244 245 consist of one or more units. 246 247 "Freeboard" means the vertical distance between the top of a tank or dike and the 248 surface of the material contained therein. 249 250 "Free liquids" means liquids that which readily separate from the solid portion of a waste under ambient temperature and pressure. To demonstrate the absence or 251 252 presence of free liquids in either a-containerized or a-bulk waste, the following 253 test must be used: Method 9095 (Paint Filter Liquids Test) as described in "Test 254 Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA 255 Publication No. SW-846), incorporated by reference at Section 615.103. 256 257 "Groundwater" means underground water which occurs within the saturated zone 258 and geologic materials where the fluid pressure in the pore space is equal to or

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greater than atmospheric pressure. [415 ILCS 5/3.210](Section 3.64 of the Act)

"Groundwater standards" means the water quality standards for groundwater adopted by the Board under Section 8 of the Illinois Groundwater Protection Act [415 ILCS 55] and found at 35 Ill. Adm. Code 620.

"Hazardous waste" means a waste, or combination of wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause or significantly contribute to an increase in mortality or an increase in serious, irreversible, or incapacitating reversible, illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed, and which has been identified, by characteristics or listing, as hazardous pursuant to Section 3001 of the Resource Conservation and Recovery Act of 1976, P.L. 94-580, or pursuant to Board regulations. [415 ILCS 5/3.220]35 Ill. Adm. Code 721. (Section 3.15 of the Act)

"Incompatible material" means a material that which may:

Cause corrosion or decay of containment materials (e.g., container inner liners or tank walls); or

When commingled with another material, produces heat or pressure, fire, explosion, violent reaction, toxic dusts, mists, fumes or gases, or flammable fumes or gases.

"Landfill" means a unit or part of a facility in or on which waste is placed and accumulated over time for disposal, and which is not a land application unit, a surface impoundment, or an underground injection well.

"Landscape waste" means all accumulations of grass or shrubbery cuttings, leaves, tree limbs, and other materials accumulated as the result of the care of lawns, shrubbery, vines, and trees. [415 ILCS 5/3.270](Section 3.20 of the Act)

"Land application unit" means an area where wastes are agronomically spread over or disked into land or otherwise applied so as to become incorporated into the soil surface.

"Land treatment" means the application of waste onto or incorporation of waste into the soil surface. For the purposes of this Part, a land application unit is a land treatment unit.

"Leachate" means any liquid, including suspended components in the liquid, that

302 has percolated through or drained from a material. 303 304 "Licensed water well contractor" means a person licensed under the Water Well 305 and Pump Installation Contractor's License Act [225 ILCS 345]. 306 307 "Liner" means a continuous layer of natural or manmade materials beneath or on 308 the side of a surface impoundment, landfill, landfill cell, waste pile, or storage 309 pile that which restricts the downward or lateral escape of waste, waste 310 constituents, leachate, or stored materials. 311 312 "Major reconstruction" means commencement of construction at a facility where 313 the fixed capital cost of the new components constructed within two years 2 year 314 period exceeds 50% of the fixed capital cost of a comparable entirely new facility. 315 New components do not include any new components necessary for compliance 316 with this Part. 317 318 "New unit" means a unit that is not an existing unit. 319 320 "Non-community water supply" means a public water supply that is not a community water supply. [415 ILCS 5/3.145](Section 3.05 of the Act) 321 322 323 "Non-special waste" means a waste that is not a special waste. 324 325 "Off-site" means not on-site. 326 327 "On-site", "on the site", or "on the same site" means the same or geographically 328 contiguous property which may be divided by public or private right-of-way if, 329 provided the entrance and exit between the properties is at a crossroads intersection and access is by crossing as opposed to going along the right-of-way. 330 331 Noncontiguous properties owned by the same person but connected by a right-of-332 way controlled by that personwhich he controls and to which the public does not have access areis also considered on-site property. 333 334 335 "Operator" means the person responsible for the operation of a site, facility, or 336 unit. 337 338 "Owner" means the person who owns a site, facility, or unit or part of a site, 339 facility, or unit, or who owns the land on which the site, facility, or unit is located. 340 341 "Pesticide" means any substance or mixture of substances intended for 342 preventing, destroying, repelling, or mitigating any pest or any substance or 343 mixture of substances intended for use as a plant regulator, defoliant, or 344 desiccant. [415 ILCS 5/3.320](Section 3.71 of of the Act)

345	
346	"Pile" means any noncontainerized accumulation of solid, non-flowing material
347	that is used for treatment, storage, or disposal.
348	·
349	"Potable" means generally fit for human consumption in accordance with
350	accepted water supply principles and practices. [415 ILCS 5/3.340](Section 3.65
351	of the Act)
352	
353	"Practical Quantitation Limit" or "PQL" means the lowest concentration or level
354	that can be reliably measured within specified limits of precision and accuracy
355	during routine laboratory operating conditions in compliance accordance with
356	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA
357	Publication SW 846, incorporated by reference at Section 615.103.
358	Tubleation 5 to 610, incorporated by reference at Section 615.105.
359	"Public water supply" means all mains, pipes, and structures through which water
360	is obtained and distributed to the public, including wells and well structures,
361	intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks,
362	and appurtenances, collectively or severally, actually used or intended for use for
363	the purpose of furnishing water for drinking or general domestic use and which
364	serve at least 15 service connections or which regularly serve at least 25 persons
365	at least 60 days per year. A public water supply is either a "community water
366	supply" or a "non-community water supply". [415 ILCS 5/3.365](Section 3.28 of
367	the Act)
368	
369	"Reactive material" means a material that which meets one or more of the
370	following criteria:
371	ronowing enteria.
372	It is normally unstable and readily undergoes violent change without
373	detonating;
374	detonating,
375	It reacts violently with water;
376	tereacts violently with water,
377	It forms potentially explosive mixtures with water;
378	to forms potentially expressive initiates with water,
379	When mixed with water, it generates toxic gases, vapors, or fumes in a
380	quantity sufficient to present a danger to human health or the environment;
381	quantity sufficient to present a danger to name in the environment,
382	It is capable of detonation or explosive reaction if it is subject to a strong
383	initiating source, or if heated under confinement;
384	minum 5 outee, of it floured under commentent,
385	It is readily capable of detonation or explosive decomposition or reaction
386	at standard temperature and pressure; or
387	at standard temperature and pressure, or
201	

388 It is a forbidden explosive as defined in 49 CFR 173 incorporated by 389 reference at Section 615.103, or a Class A explosive as defined in 49 CFR 390 173.53, or a Class B explosive as defined in 49 CFR 173.88. 391 392 "Registered land surveyor" means a person registered under the Illinois 393 Professional Land Surveyors Act of 1989 [225 ILCS 330]. 394 395 "Registered professional engineer" means a person registered under the 396 Professional Engineering Practice Act of 1989 [225 ILCS 325]. 397 398 "Regulated recharge area" means a compact geographic area, as determined by the Boardboard pursuant to Section 17.4 of the Act, the geology of which renders 399 400 a potable resource groundwater particularly susceptible to contamination. [415 401 ILCS 5/3.390](Section 3.67 of the Act) 402 403 "Road oil" means slow-curing asphaltic oils that which show no separation on 404 standing and which are used for road construction, maintenance, or repair. 405 406 "Runoff" means any rainwater, leachate, or other liquid that drains over land from 407 any part of a facility. 408 409 "Run-on" means any rainwater, leachate, or other liquid that drains over land onto 410 any part of a facility. 411 412 "Secondary containment structure" means any structure or basin intended to 413 contain spills and prevent runoff or leaching from piles, containers, or tanks and 414 related piping. 415 416 "Setback zone" means a geographic area, designated pursuant to this Act, 417 containing a potable water supply well or a potential source or potential route 418 having a continuous boundary, and within which certain prohibitions or 419 regulations are applicable in order to protect groundwaters. [415 ILCS 420 5/3.450](Section 3.61 of the Act) 421 422 "Site" means any location, place, tract of land, and facilities, including-but not 423 limited to buildings, and improvements used for purposes subject to regulation or 424 control by this Act or regulations thereunder. [415 ILCS 5/3.460](Section 3.43 of 425 the Act) 426 427 "Sludge" means any solid, semi-solid, or liquid waste generated from a 428 municipal, commercial, or industrial wastewater treatment plant, water supply 429 treatment plant, or air pollution control facility or any other such waste having 430 similar characteristics and effects. [415 ILCS 5/3.465](Section 3.44 of the Act)

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"Special waste" means any industrial process waste, pollution control waste or hazardous waste, except as determined pursuant to Section 22.9 of the Act and 35 Ill. Adm. Code 808. (Section 3.45 of the Act)

"Storage" means the holding or containment of a material, either <u>temporarily or foron a temporary basis or for a period of</u> years, in <u>asuch</u> manner as not to constitute disposal of the<del>such</del> material.

"Surface impoundment" means a natural topographical depression, man-made excavation, or diked area that is designed to hold liquid wastes or wastes containing free liquids.

"Surface water" means all waters that are open to the atmosphere.

"Tank" means a stationary device, designed to contain an accumulation of material <u>thatwhich</u> is constructed of non-earthen materials (e.g., wood, concrete, steel, plastic) <u>thatwhich</u> provide structural support. The term "tank" does not include areas used to accumulate materials <u>beforeprior to</u> pumping to tanks or containers (<u>e.g.i.e.</u>, sump pits) or associated piping. The term "tank" does not include vehicles used to transport material.

"Treatment" means any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any material so as to neutralize such material, or so as to recover energy or material resources from the material or so as to render such material nonhazardous or less hazardous, safer to transport, store or dispose of, or amenable for recovery, amenable for storage or reduced in volume.

"Underground storage tank" means a storage tank as defined at 35 Ill. Adm. Code 731.101(f).

"Unit" means any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). <u>This term includes secondary containment structures and their contents at agrichemical facilities. [415 ILCS 5/3.465] (Section 3.62 of the Act)</u>

"Unit boundary" means a line at the land's surface circumscribing the area on which, above which, or below which waste, pesticides, fertilizers, road oils, or deicing agents will be placed during the active life of the facility. The space taken up by any liner, dike, or other barrier designed to contain waste, pesticides, fertilizers, road oils, or de-icing agents falls within the unit boundary.

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474		"Waste" means any garbage, sludge from a waste treatment plant, water supply
475		treatment plant, or air pollution control facility or other discarded material,
476		including solid, liquid, semi-solid, or contained gaseous material resulting from
477		industrial, commercial, mining, and agricultural operations, and from community
478		activities, but does not include: [415 ILCS 5/3.535]
479		
480		industrial discharges with NPDES permits issued pursuant to 35 Ill. Adm.
481		Code 309;
482		
483		source, spent nuclear, or by-product materials as defined by the Atomic
484		Energy Act of 1954 (42 U.S.C. 2014);
485		
486		any solid or dissolved material from any material subject to 62 Ill. Adm.
487		Code 1700 through 1850. (Section 3.53 of the Act)
488		
489		"Waste pile" means a pile consisting of waste that has a total volume greater than
490		10 cubic yards or within which the waste remains for more than 90 days.
491		
492		"Waters" means all accumulations of water, surface and underground, natural
493		and artificial, public and private, or parts thereof, which are wholly or partly
494		within, flow through, or border upon this state. [415 ILCS 5/3.550](Section 3.56
495		of the Act)
496		
497		"Well" means a bored, drilled, or driven shaft, or dug hole, the depth of which is
498		greater than the largest surface dimension. [415 ILCS 5/3.555](Section 3.57 of
499		the Act)
500		
501	(Sour	rce: Amended at 47 Ill. Reg, effective)
502		
503	Section 615.	103 Incorporations by Reference
504		
505	a)	The Board incorporates the following material by reference:
506		
507		CFR (Code of Federal Regulations). Available from the Superintendent of
508		Documents, U.S. Government Printing Office, Washington, D.C. 20402,
509		202-783-3238.GPO. Superintendent of Documents, U.S. Government
510		Printing Office, Washington, D.C. 20401, (202)783-3238:
511		
512		Method Detection Limit Definition, appendix B to Part 136, 40
513		<u>CFR 136 (2017).</u>
514		
515		49 CFR 173 (2017).
516		

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517			National Primary Drinking Water Regulations, Final Rule, 56 Fed.
518			Reg. 3526-3597 (January 30, 1991).
519			Shippers - General Requirements for Shipments and Packagings,
520			49 CFR 173 (1990).
521			
522			NTIS. National Technical Information Service, 5301 Shawnee Road,
523			Alexandria VA 223125285 Port Royal Road, Springfield VA 22161, 703-
524			605-6000( <del>703)487-4600</del> .
525			
526			"Test Methods for Evaluating Solid Wastes, Physical/Chemical
527			Methods", EPA Publication No. SW-846, as amended by Updates
528			I, II, IIA, IIB, III, IIIA, and IIIB I, (Third Edition, 1986, as
529			amended by Revision I (December 1987), Doc. No. 55-001-00000-
530			1) (available online). <del>PB 89-148076).</del>
531			<u> </u>
532	b)	This S	Section incorporates no later amendments or editions.
533	-,		r
534	(Sour	ce: Am	nended at 47 Ill. Reg, effective)
535	(2332		,,
536	Section 615.1	104 Pr	ohibitions
537			<del></del>
538	A <del>No</del> person i	nust no	tshall cause or allow the construction or operation of any facility or unit in
539			or regulations adopted by the Board thereunder, including but not limited to
540	this Part.		
541			
542	(Sour	ce: Am	nended at 47 Ill. Reg, effective)
543	(2002)		, viioui u
544	Section 615.1	105 Ge	eneral Exceptions
545			<b>F</b>
546	a)	This l	Part does not apply to any facility or unit, or to the owner or operator of any
547	ω,		ty or unit:
548		10001111	y
549		1)	For which the owner or operator obtains certification of minimal hazard
550		-/	under <del>pursuant to</del> Section 14.5 of the Act; or
551			the first to be the first, of
552		2)	For which alternate requirements are imposed in an adjusted standard
553		2)	proceeding or as part of a site-specific rulemaking, under <del>pursuant to</del> Title
554			VII of the Act; or
555			vii oi tile riet, oi
556		3)	For which alternate requirements are imposed in a regulated recharge area
557		3)	proceeding under <del>pursuant to</del> Section 17.4 of the Act; or
558			proceeding under pursuant to section 17.4 of the Act, of
559		4)	That is located on the same site as a non-community water system well
JJ7		4)	That is tocated on the same site as a non-community water system well

560 561		and for which the owner is the same for both the facility or unit and the well. (Section 14.4(b) of the Act); or
562		wen. (Section 1 i. i(b) of the rect), of
563	5)	That is located within a regulated recharge area as delineated in 35 Ill.
564	3)	Adm. Code 617 <u>if</u> , <i>provided that</i> :
565		Traini Code of view, provided view.
566		A) The boundary of the lateral area of influence of a community wate
567		supply well located within the regulated recharge area does not
568		include such facility or unit therein;
569		memue such facility of affic mercin,
570		B) The distance from the wellhead of the community water supply to
571		the facility or unit exceeds 2500 feet; and
572		the interior of unit enecessar 2000 feet, units
573		C) The community water supply well was not in existence prior to
574		January 1, 1988. [415 ILCS 5/14.4(b)](Section 14.4(b) of the Act)
575		or
576		<b>4-</b>
577	6)	For which the owner or operator of the facility for storage and related
578	-,	handling of pesticides or fertilizers for the purpose of commercial
579		application or at a central location for the purpose of distribution to retail
580		sales outlets that has filed a written notice of intent under <del>pursuant to</del>
581		Section 14.6 of the Act with the Department of Agriculture by January 1,
582		1993, or within 6 months after the date on which a maximum setback zone
583		is established or a regulated recharge area regulation is adopted that
584		affects such a facility; or has filed a written certification of intent
585		under <del>pursuant to</del> Section 14.6 of the Act on the appropriate license or
586		renewal application form submitted to the Department of Agriculture or
587		other appropriate agency. [415 ILCS 5/14.6(a)](Section 14.6(a) of the
588		Act). This exception does shall not apply to those facilities that are not in
589		compliance with the program requirements of subsections 14.6(b) and
590		14.6(c) of the Act.
591		
592	b) Nothi	ng in this Section willshall limit the authority of the Board to impose
593		rements on any facility or unit within any portion of any setback zone or
594	<u> </u>	ated recharge area <u>under<del>pursuant to</del></u> the Act.
595	C	
596	(Source: Am	ended at 47 Ill. Reg, effective)
597		-
598	SUBPA	RT B: GROUNDWATER MONITORING REQUIREMENTS
599		
500	Section 615 202 Co	mpliance Period

The compliance period is the active life of the unit, including closure and post-closure care

601

503	periods.	
504		
505	a)	The active life begins when the unit first begins operation or one year after the
506		date of first applicability, whichever occurs later, and ends when the post-closure
507		care period ends.
508		
509	b)	The post-closure care period for units other than pesticide storage and handling
510		units subject to Subpart I and fertilizer storage and handling units subject to
511		Subpart J is five years after closure, except as provided at in subsection (d) or
512		Section 615.211(e).
513		
514	c)	The post-closure care period for pesticide storage and handling units subject to
515	,	Subpart I and for fertilizer storage and handling units subject to Subpart J is three
516		years after closure, except as provided inat Section 615.211(e).
517		
518	d)	Despite subsections Subsections (a), (b), and (c)-notwithstanding, no post-closure
519	ŕ	care period is required if all waste, waste residues, contaminated containment
520		system components, and contaminated subsoils are removed or decontaminated at
521		closure, and no ongoing corrective action is required <u>underpursuant to</u> Section
522		615.211.
523		
524	(Sour	ce: Amended at 47 Ill. Reg, effective)
525		
526	Section 615.2	203 Compliance with Groundwater Standards
527		
528	The owner or	operator <u>mustshall</u> comply with the groundwater standards.
529		
530	a)	The term of compliance is the compliance period.
531		
532	b)	Compliance <u>must</u> shall be measured at the compliance point, or compliance points
533		if more than one such point exists.
534		
535	(Sour	ce: Amended at 47 Ill. Reg, effective)
536		
537	Section 615.2	204 Groundwater Monitoring System
538		
539	a)	Except as provided otherwise in subsection (b) of this Section, the groundwater
540		monitoring system must consist of a sufficient number of wells, installed at
541		appropriate locations and depths to yield groundwater samples, that:
542		
543		1) Represent the quality of background water that has not been affected by
544		contamination from the facility or unit; and
545		

- Represent the quality of groundwater at the compliance point or points.
- If a potable water well or other water well can be used as a monitoring well underpursuant to this subsection, no additional monitoring wells are required under this Section. A potable water well or other water well may be used as a
  - For a potable water well other than a community water supply well, a construction report has been filed with the Illinois Department of Public Health for such well, or such well has been located and constructed (or reconstructed) to meet the Illinois Water Well Construction Code [415]
  - For a potable water supply well that was constructed before August 20, 1965, the enactment of the Illinois Water Well Construction Code [415] ILCS 30], and meets all of the following criteria:
    - Construction must be done in a manner that will enable the collection of groundwater samples that represent in situ
    - Casings and screens must be made from durable material resistant to expected chemical or physical degradation that does not interfere with the quality of groundwater samples being collected; and
    - The annular space opposite the screened section of the well (i.e., the space between the bore hole and well screen) must be filled with gravel or sand if necessary to collect groundwater samples. The annular space above and below the well screen must be sealed to prevent migration of water from adjacent formations and the surface
  - For a water well other than a potable water well (e.g., a livestock watering well or an irrigation well), the owner or operator of the unit seeking to use the well as a monitoring well certifies to the Agency that a construction report has been filed with the Illinois Department of Public Health or the Illinois Department of Mines and Minerals for such well, or that such well has been located and constructed (or reconstructed) to meet the Illinois Water Well Construction Code [415 ILCS 30] and 35 Ill. Adm. Code 920;
  - The unit contains solely non-special waste if the unit is a surface

589		
590	c)	When If a facility contains more than one unit, separate groundwater monitoring
591		systems are not required for each unit if, provided that provisions for sampling the
592		groundwater will enable detection and measurement of contaminants that have
593		entered the groundwater from all units.
594		
595	d)	All monitoring wells must meet the following requirements:
596		
597		1) Construction must be done in a manner that will enable the collection of
598		groundwater samples;
599		
700		2) Casings and screens must be made from durable material that is resistant
701		to expected chemical or physical degradation and that does not interfere
702		with the quality of groundwater samples being collected; and
703		
704		3) The annular space opposite the screened section of the well (i.e., the space
705		between the bore hole and well screen) must be filled with gravel or sand
706		if necessary to collect groundwater samples. The annular space above and
707		below the well screen must be sealed to prevent migration of water from
708		overlying adjacent formations and the surface to the sampled depth.
709		
710	(Sourc	e: Amended at 47 Ill. Reg, effective)
711	a	
712	Section 615.2	05 Groundwater Monitoring Program
713	TT!	
714	The owner or	operator mustshall develop a groundwater monitoring program that consists of:
715	,	
716	a)	Consistent sampling and analysis procedures that are designed to ensure
717		monitoring results that provide a reliable indication of groundwater quality below
718		the unit. At a minimum, the program must include procedures and techniques for:
719		1) Comple collection.
720 721		1) Sample collection;
722		2) Sample preservation and chimments
723		2) Sample preservation and shipment;
724		3) Analytical procedures; and
725		3) Analytical procedures; and
726		4) Chain of custody control.
727		4) Chain of custody control.
728	b)	Sampling and analytical methods that are appropriate for groundwater monitoring
729	0)	and that allow for detection and quantification of contaminants specified in this
730		Subpart, and that are consistent with the sampling and analytical methods
731		specified in 35 Ill. Adm. Code 620.
, , , 1		specified in 33 in. rigin. Code 020.

732		
733	c)	A determination of the groundwater head elevation each time groundwater is
734		sampled. A determination of the groundwater head elevation is not required for
735		samples taken from a potable well used as a monitoring well <u>underpursuant to</u>
736		Section 615.204(b).
737		
738	d)	A determination at least annually of the groundwater flow rate and direction.
739		
740	e)	If the owner or operator determines that the groundwater monitoring program no
741		longer satisfies the requirements of this Section, the owner or operator <u>mustshall</u> ,
742		within 90 days, make appropriate changes to the program and mustshall notify the
743		Agency of <u>the</u> such changes when submitting the groundwater monitoring reports
744		under Section 615.208.
745		
746	(Sourc	e: Amended at 47 Ill. Reg, effective)
747		
748	Section 615.2	06 Contaminants to be Monitored
749		
750	a)	The owner or operator <u>mustshall</u> monitor for all <u>constituents</u> parameters that meet
751		the following criteria, except as provided in subsections (b) and (c):
752		
753		1) Material containing <u>the constituents</u> such parameter is stored, disposed of,
754		or otherwise handled at the site; and
755		
756		2) There is a groundwater standard for <u>the constituents</u> such parameter.
757		
758	b)	The owner or operator of a unit subject to Subpart I for the storage and handling
759		of pesticides <u>mustshall</u> monitor for five specific pesticides or five groups of
760		chemically-similar pesticides stored or handled at the unit that are the most likely
761		to enter into the groundwater from the unit and that are the most toxic. The owner
762		or operator <u>mustshall</u> choose the five specific pesticides or five groups based upon
763		the following criteria:
764		
765		1) The volume of material stored or handled at the unit;
766		
767		2) The leachability characteristics of the pesticides stored or handled at the
768		unit;
769		
770		3) The toxicity characteristics of the pesticides stored or handled at the unit;
771		
772		4) The history of spillage of the pesticides stored or handled at the unit; and
773		
774		5) Any groundwater standards for the pesticides stored or handled at the unit.

775		
776	c)	The owner or operator of a unit subject to Subpart J for the storage and handling
777		of fertilizers mustshall monitor for pH, specific conductance, total organic carbon
778		nitrates as nitrogen, and ammonia nitrogen.
779		
780	(Sou	rce: Amended at 47 Ill. Reg, effective)
781		
782	Section 615.	207 Sampling Frequency
783		
784	a)	The owner or operator <u>mustshall</u> determine whether groundwater standards have
785		been exceeded at each monitoring well at least quarterly during the compliance
786		period, except as provided otherwise in <u>subsection</u> subsections (b) <u>or</u> , (c) or
787		Section 615.209(b).
788		
789	b)	The owner or operator of a unit subject to Subpart I for the storage and handling
790		of pesticides or Subpart J for the storage and handling of fertilizer may substitute
791		the quarterly determination of subsection (a) with a determination at least semi-
792		annually <u>ifprovided that</u> all of the following conditions are met:
793		
794		1) The unit is in compliance with the containment requirements of 8 Ill.
795		Adm. Code 255;
796		
797		2) There have been no detections within the preceding two years in any of
798		the monitoring wells of any contaminant stored or handled at the facility
799		or of any contaminant attributable to operation of the unit; and
300		
301		3) No reportable agrichemical spills, as defined <u>inpursuant to</u> 8 Ill. Adm.
302		Code 255, have occurred at the facility within the previous two years.
303		
304	c)	The owner or operator of a unit subject to Subpart K for the storage and handling
305		of road oils or Subpart L for the storage and handling of de-icing agents <u>mustshal</u>
306		determine whether groundwater standards have been exceeded at each monitoring
307		well at least annually during the compliance period, except as provided at Section
808		615.209(b).
309	<b>49</b>	A 1 1 47 HI D
310	(Sou	rce: Amended at 47 Ill. Reg, effective)
311	G . 41	200 D 4'
312	Section 615.	208 Reporting
313	T1	
314		r operator <u>mustshall</u> submit results of all monitoring required <u>underpursuant to</u> this
315	Suppart to th	ne Agency within 60 days after completion of sampling.
316	(Corr	rear Amended at 47 III. Pag. affective
317	(Sou	rce: Amended at 47 Ill. Reg, effective)

**Section 615.209 Non-Compliance Response Program** 

If monitoring results collected <u>underpursuant to</u> Sections 615.206 and 615.207 show that a groundwater standard has been exceeded, the owner or operator must<del>shall</del>:

- a) Notify the Agency of this finding when submitting the groundwater monitoring results required <u>underpursuant to</u> Section 615.208. The notification must indicate which groundwater standards have been exceeded.
- b) Resample the groundwater within 3 days in all monitoring wells where a groundwater standard has been exceeded and redetermine the presence and concentration of each parameter required <u>underpursuant to</u> Section 615.206, except that:
  - 1) If the unit is subject to Subpart I for the storage and related handling of pesticides, resample the groundwater within 3 days in all monitoring wells where a groundwater standard has been exceeded and determine the presence and concentration in each such sample of each pesticide previously and presently stored or handled at the unit.
  - 2) If the unit is subject to Subpart J for the storage and related handling of fertilizers, monitor monthly for the parameters set forth in Section 615.206(c) until the groundwater standard is no longer exceeded.
- c) Submit the results of sampling required under subsection (b) when submitting the groundwater results required <u>underpursuant to Section 615.208</u>.
- d) Prepare an engineering feasibility plan for a corrective action program designed to achieve the requirements of Section 615.211. This plan <u>mustshall</u> be submitted to the Agency in writing within 120 days after the date on which the sample results are submitted to the Agency <u>underpursuant to</u> subsection (c), unless:
  - 1) None of the parameters identified under subsection (b) exceed the groundwater standards; or
  - 2) The owner or operator makes a demonstration <u>underpursuant to</u> Section 615.210.
- e) Begin the corrective action program specified in subsection (d) within 120 days after the date on which the sample results are submitted to the Agency under<del>pursuant to</del> subsection (c), unless:

361 362		1)	None of the parameters identified under subsection (b) exceed the groundwater standards; or
363			ground water standards, or
364		2)	The owner or operator makes a demonstration under <del>pursuant to</del> Section
365		-/	615.210.
366			<del></del>
367	(Sour	rce: An	nended at 47 Ill. Reg, effective)
368	`		S
369	Section 615.	210 A	Iternate Non-Compliance Response Program
370			
371	If the ground	lwater s	sampling required under <del>pursuant to</del> Section 615.207 shows that a
372	_		rd has been exceeded, it is presumed that contamination from the facility or
373	-		onitored is responsible for the standard being exceeded. An owner or
374	operator may	overco	ome that presumption by making a demonstration that a source other than the
375	facility or un	it that i	s being monitored caused the exceedance exceedence or that the
376	<u>exceedance</u> e	xceede	nce resulted from error in sampling, analysis, or evaluation. In making
377	<u>the</u> such dem	onstrati	on, the owner or operator <u>mustshall</u> :
378			
379	a)	Notif	fy the Agency that the owner or operator intends to make a demonstration
880		unde	r this Section when submitting the groundwater monitoring results required
381		unde	r <del>pursuant to</del> Section 615.208.
382			
383	b)	Subn	nit a report to the Agency that demonstrates that a source other than a facility
384		or un	it owned or operated by for which he is the owner or operator caused the
385		grou	ndwater standard to be exceeded, or that the groundwater standard was
386		exce	eded due to an error in sampling, analysis or evaluation. Such report must be
387		inclu	ded with the next submission of groundwater monitoring results required
888		unde	r <del>pursuant to</del> Section 615.208; and
389			
390	c)		inue to monitor in compliance accordance with the groundwater monitoring
391		prog	ram established <u>underpursuant to</u> Sections 615.205, 615.206, and 615.207.
392			
393	(Sour	rce: An	nended at 47 Ill. Reg, effective)
394			
395	Section 615.	211 C	orrective Action Program
396			
397		-	or required to conduct a corrective action program <u>underpursuant to</u> this
398	Subpart <u>mus</u>	t <del>shall</del> :	
399			
900	a)	_	n corrective action within 120 days after the date on which the sample results
901		are s	ubmitted to the Agency <u>underpursuant to</u> Section 615.209(c).
902			
903	b)	Take	corrective action that results in compliance with the groundwater standards

904		at the compliance point or points.
905	,	
906	c)	Establish and implement a groundwater monitoring program to demonstrate the
907		effectiveness of the corrective action program.
806	1	
909	d)	Take corrective action that maintains compliance with the groundwater standards
910		
911		1) At all compliance points; and
912		
913		2) Beyond the unit boundary, where necessary to protect human health and
914		the environment, unless the owner or operator demonstrates to the Agency
915		that, despite the owner's or operator's best efforts, the owner or operator
916		was unable to obtain the necessary permission to undertake such action.
917		The owner or operator is not relieved of responsibility to clean up a
918		release that has migrated beyond the unit boundary where off-site access i
919		denied.
920		
921	e)	Continue corrective action measures during the compliance period to the extent
922		necessary to ensure that the groundwater standard is not exceeded at the
923		compliance point or points. If the owner or operator is still conducting corrective
924		action at the end of the compliance period, the owner or operator <u>must</u> shall
925		continue that corrective action for as long as necessary to achieve compliance
926		with the groundwater standards. The owner or operator may terminate corrective
927		action measures taken beyond the compliance period if the owner or operator can
928		demonstrate, based on data from the groundwater monitoring program under
929		subsection (c), that the groundwater standards have not been exceeded for a
930		period of three consecutive years.
931		
932	f)	Report in writing to the Agency on the effectiveness of the corrective action
933		program. The owner or operator <u>mustshall</u> submit these reports semi-annually.
934		
935	g)	If the owner or operator determines that the corrective action program no longer
936	_	satisfies the requirements of this Section, the owner or operator mustshall, within
937		90 days, make any appropriate changes to the program.
938		
939	(Source	e: Amended at 47 Ill. Reg, effective)
940	`	
941	SUBPA	ART C: GENERAL CLOSURE AND POST-CLOSURE REQUIREMENTS
942		
943	Section 615.3	02 Closure Performance Standard
944		
945	The owner or	operator mustchall close the unit in a manner that

947	a)	Controls, minimizes, or eliminates, to the extent necessary to protect human
948		health and the environment, post-closure escape of waste, waste constituents,
949		leachate, contaminated runoff, or waste decomposition products to soils,
950		groundwaters, surface waters, and the atmosphere;
951		
952	b)	Minimizes the need for maintenance during and beyond the post-closure care
953		period; and
954		
955	c)	Complies with the closure requirements of 35 Ill. Adm. Code: Subtitles C and G.
956		
957	(Sour	rce: Amended at 47 Ill. Reg, effective)
958		
959	Section 615.	303 Certification of Closure
960		
961	Within 60 da	ys after the completion of closure is complete, the owner or operator must shall
962	submit to the	Agency, by registered or certified mail, a certification that the unit has been closed
963	in complianc	eaccordance with the closure requirements. The certification must be signed by the
964	owner or ope	erator and by an independent registered professional engineer. Documentation
965	supporting th	ne independent registered professional engineer's certification must be furnished to
966	the Agency u	ipon request.
967		
968	(Sour	rce: Amended at 47 Ill. Reg, effective)
969		
970	Section 615.	304 Survey Plat
971		·
972	a)	Before No later than the submission of the certification of closure of each unit, the
973	,	owner or operator must record with land titles and shall submit to the Agency and
974		any local zoning authority, or authority with jurisdiction over local land use, and
975		to the Agency, and record with land titles, a survey plat indicating the location
976		and dimensions of any waste disposal units, and any pesticide or fertilizer storage
977		and handling units, with respect to permanently surveyed benchmarks. This plat
978		must be prepared and certified by a registered land surveyor.
979		and the property and the second of the secon
980	b)	For pesticide storage and handling units or for fertilizer storage and handling
981	-,	units, records or reports required under any other <u>Statestate</u> or <u>federal</u> Federal
982		regulatory program and that which contain the information required above may be
983		used to satisfy this reporting requirement.
984		asea to satisfy this reporting requirement.
985	(Sour	rce: Amended at 47 Ill. Reg, effective)
986	(Boul	ce. 7 michaed at 47 m. Reg
987	Section 615	305 Post-Closure Notice for Waste Disposal Units
988	Section 013.	303 1 0st-Closure notice for waste Disposar Cities
989	Within No los	ter than 60 days after certification of closure of the unit, the owner or operator of a
フロフ	vv 1111111 <del>1VO 1dl</del>	ter than obtains after certification of closure of the unit, the owner of operator of a

990	unit cubiact to	Subpart D or F mustshall submit to the Agency, to the County Recorder, and to		
991	•	ng authority, or authority with jurisdiction over local land use, a record of the type,		
991	•			
992 993	location and qu	uantity of wastes disposed of within each cell or other area of the unit.		
	(C	A mandad at 47 III Day affactive		
994	(Source	e: Amended at 47 Ill. Reg, effective)		
995	Section (15.20	Contification of Completion of Boot Classes Com		
996	Section 015.30	06 Certification of Completion of Post-Closure Care		
997	XX7141-1 NI - 1-4	4		
998		r than 60 days after completion of the established post-closure care period, the		
999	_	ator must shall submit to the Agency, by registered or certified mail, a certification		
1000		osure care period for the unit was performed in <u>compliance</u> accordance with the		
1001	•	in the approved post-closure plan. The certification must be signed by the owner		
1002		d an independent registered professional engineer. Documentation supporting the		
1003	_	gistered professional engineer's certification must be furnished to the Agency		
1004	upon request.			
1005	(0	A 1. 1. 4. 47 III. D		
1006	(Source	e: Amended at 47 Ill. Reg, effective)		
1007		CUDDADED. ON CITE LANDELLIC		
1008		SUBPART D: ON-SITE LANDFILLS		
1009	Section (15 A)	)1		
1010	Section 015.40	01 Applicability		
1011	This Culturant o	mulica to existing landfill suits that one leageted who live on montially within a cethools		
1012	This Subpart applies to existing landfill units that are located wholly or partially within a setback			
1013	•	ted recharge area and that contain special waste or other waste generated on-site,		
1014	except that this	s Subpart does not apply to any existing landfill unit that:		
1015	۵)	Contains soluby one or many of the followings, homordous weets livesteels weets		
1016		Contains solely one or more of the following: hazardous waste, livestock waste,		
1017		landscape waste, or construction and demolition debris; or		
1018	1.)	Is a warment from this Dort we demonstrate Costion (15 105		
1019	b)	Is exempt from this Part <u>underpursuant to</u> Section 615.105.		
1020 1021	(Course	A mandad at 47 III Dag affective		
1021	(Source	e: Amended at 47 III. Reg, effective)		
1022	Section 615 AC	22 Required Closure of Units Located Within Minimum Setback Zones		
1023	Section 015.40	2 Required Closure of Offics Located within Minimum Setback Zoffes		
1024	A No parson m	ust notshall cause or allow the energion within a minimum setheak zone of any		
1025		ust not shall cause or allow the operation within a minimum setback zone of any ter January 10, 1994 commencing two years after the effective date of this Part.		
1020		ndfill unit must be completed within three years shall be completed three years		
1027		ive date of this Part.		
1028	urter the enect	ive date of ting fair.		
1029	(Source	e: Amended at 47 Ill. Reg, effective)		
1030	(Source			
1031	Section 615 AC	03 Required Closure of Units Located Within Maximum Setback Zones		
1054	200011 012.40	15 Required Ciosure of Child Located Within Maximum Setuata Zulits		

1033	
1034	Starting two years after the effective date of the ordinance or regulation that establishes a
1035	maximum setback zone, a No person must not shall cause or allow the operation within thea
1036	maximum setback zone of any landfill unit at which special waste is disposed of, commencing
1037	two years after the effective date of the ordinance or regulation that establishes the maximum
1038	setback zone. Closure mustshall be completed within three years after the effective date of the
1039	ordinance or regulation that establishes the maximum setback zone.
1040	
1041	(Source: Amended at 47 Ill. Reg, effective)
1042	
1043	Section 615.404 Required Closure of Units Located Within Regulated Recharge Areas
1044	
1045	ANo person must notshall cause or allow the operation within a regulated recharge area of any
1046	landfill unit that contains special waste and for which the distance from the wellhead of the
1047	community water supply well to any part of the landfill unit is 2500 feet or less. This provision
1048	becomes effective four years after the date on which the Board establishes the regulated recharge
1049	area. Closure mustshall be completed within five years after the date on which the Board
1050	establishes the regulated recharge area.
1051	
1052	(Source: Amended at 47 Ill. Reg, effective)
1053	
1054	SUBPART E: ON-SITE LAND TREATMENT UNITS
1055	
1056	Section 615.421 Applicability
1057	
1058	This Subpart applies to existing land treatment units that are located wholly or partially within a
1059	setback zone or regulated recharge area and that treat or dispose of special waste or other waste
1060	generated on-site, except that this Subpart does not apply to any existing land treatment unit that:
1061	
1062	a) Contains solely one or more of the following: hazardous waste, livestock waste,
1063	landscape waste, or construction and demolition debris; or
1064	
1065	b) Is exempt from this Part <u>underpursuant to</u> Section 615.105.
1066	
1067	(Source: Amended at 47 Ill. Reg, effective)
1068	
1069	Section 615.422 Required Closure of Units Located Within Minimum Setback Zones
1070	
1071	ANo person must not shall cause or allow the operation within a minimum setback zone of any
1072	land treatment unit after January 10, 1994 commencing two years after the effective date of this
1073	Part. Closure <u>mustshall</u> be completed <u>by January 10, 1995</u> within three years after the effective
1074	date of this Part.
1075	

076	(Source: Amended at 47 Ill. Reg, effective)
077	
078	Section 615.423 Required Closure of Units Located Within Maximum Setback Zones
079	•
080	Starting two years after the effective date of the ordinance or regulation that establishes a
081	maximum setback zone, aNo person must notshall cause or allow the operation within thea
082	maximum setback zone of any land treatment unit at which special waste is treated or disposed
083	of, commencing two years after the effective date of the ordinance or regulation that establishes
084	the maximum setback zone. Closure mustshall be completed within three years after the
085	effective date of the ordinance or regulation that establishes the maximum setback zone.
086	erroration data or the organization of the data of the
087	(Source: Amended at 47 Ill. Reg, effective)
088	(200200 1 mondod ut 17 m 110g
089	Section 615.424 Land Treatment of Sludges in Maximum Setback Zones
090	2000001 0100012 1 20000110010 01 21000 <b>5</b> 00 111 11200110110 200000011 20000
091	Nothing in this Subpart prohibits shall prohibit land treatment within a maximum setback zone of
092	sludge resulting from the treatment of domestic wastewater or of sludge resulting from the
093	treatment of water to produce potable water, if such activities are conducted in compliance
094	accordance with the Act and 35 Ill. Adm. Code: Subtitle C.
095	
096	(Source: Amended at 47 Ill. Reg, effective)
097	(20000000000000000000000000000000000000
098	Section 615.425 Closure and Post-Closure Care
099	
100	The owner or operator <u>mustshall</u> comply with the requirements of Sections 615.302 and 615.303.
101	The state of the s
102	(Source: Amended at 47 Ill. Reg, effective)
103	` <u> </u>
104	SUBPART F: ON-SITE SURFACE IMPOUNDMENTS
105	
106	Section 615.441 Applicability
107	FF 300
108	This Subpart applies to existing surface impoundment units that are located wholly or partially
109	within a setback zone or regulated recharge area and that contain special waste or other waste
110	generated on-site, except that this Subpart does not apply to any existing surface impoundment
111	unit that:
112	
113	a) Contains solely one or more of the following: hazardous waste, livestock waste,
114	landscape waste, or construction and demolition debris; or
115	
116	b) Is exempt from this Part <u>underpursuant to</u> Section 615.105.
117	1
118	(Source: Amended at 47 Ill. Reg, effective)
	· · · · · · · · · · · · · · · · · · ·

1119 1120 Section 615.442 Required Closure of Units Located Within Minimum Setback Zones 1121 1122 ANo person must not shall cause or allow the operation within a minimum setback zone of any 1123 surface impoundment unit after January 10, 1994commencing two years after the effective date 1124 of this Part. Closure must shall be completed by January 10, 1995 within three years after the 1125 effective date of this Part. 1126 1127 (Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_) 1128 1129 Section 615.443 Required Closure of Units Located Within Maximum Setback Zones 1130 1131 Starting two years after the effective date of the ordinance or regulation that establishes a 1132 maximum setback zone, a ANo person must not shall cause or allow the operation within thea 1133 maximum setback zone of any surface impoundment unit at which special waste is stored, 1134 treated or disposed of, commencing two years after the effective date of the ordinance or regulation that establishes the maximum setback zone. Closure mustshall be completed within 1135 three years after the effective date of the ordinance or regulation that establishes the maximum 1136 1137 setback zone. 1138 1139 (Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_) 1140 1141 **Section 615.444 Groundwater Monitoring** 1142 The owner or operator of an existing on-site surface impoundment must<del>shall</del> comply with the 1143 1144 requirements of Subpart B. 1145 (Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_) 1146 1147 1148 **Section 615.445 Inspection Requirements** 1149 1150 During operation, While a surface impoundment is in operation, it must be inspected weekly and 1151 after storms to detect evidence of any of the following: 1152 1153 a) Deterioration, malfunctions or improper operation of overtopping control 1154 systems; 1155 1156 b) Sudden drops in the level of the impoundment's contents; 1157 1158 c) Severe erosion or other signs of deterioration in dikes or other containment 1159 devices; or 1160 1161 d) A leaking dike.

1162			
1163	(Source	e: An	nended at 47 Ill. Reg, effective)
1164			
1165	Section 615.4	46 O	perating Requirements
1166			
1167	a)		person must notshall cause or allow incompatible materials to be placed in
1168		the s	ame surface impoundment unit.
1169			
1170	b)		rface impoundment unit must be removed from service in <u>compliance</u>
1171		acco	rdance with subsection (c) when:
1172			
1173		1)	The level of liquids in the unit suddenly drops and the drop is not known
1174			to be caused by changes in the flows into or out of the unit; or
1175			
1176		2)	The dike leaks.
1177		****	
1178	c)		n a surface impoundment unit must be removed from service as required by
1179		subse	ection (b), the owner or operator <u>must</u> shall:
1180		1)	
1181		1)	Shut off the flow or stop the addition of wastes into the impoundment unit;
1182		2)	
1183		2)	Contain any surface leakage that has occurred or is occurring;
1184		2)	Consults 1 - 1
1185		3)	Stop the leak;
1186		4)	Take any other recognized and to store an energet actoring the failure.
1187		4)	Take any other necessary steps to stop or prevent catastrophic failure;
1188 1189		5)	If a leak cannot be stopped by any other means, empty the impoundment
1190		3)	unit; and
1190			umi, and
1191		6)	Notify the Agency of the removal from service and corrective actions that
1193		0)	were taken, such notice to be given within 10 days after the removal from
1194			service.
1195			Set vice.
1196	d)	No s	urface impoundment unit that has been removed from service in compliance
1197	u)		rdance with the requirements of this Section may be restored to service unless
1198			portion of the unit that failed has been repaired.
1199		Р	
1200	e)	A su	rface impoundment unit that has been removed from service in compliance
1201	-,		rdance with the requirements of this Section and that is not being repaired
1202			be closed in compliance accordance with the provisions of Section 615.447.
1203			
1204	(Sourc	e: An	mended at 47 Ill. Reg, effective)

1005			
1205 1206	Section 615 A	47 Closure	and Post-Closure Care
1200	Section 015.4	47 Closure	and Post-Closure Care
1207	a)	If closure i	s to be by removal, the owner or operator mustshall remove all waste,
1209	α)		esidues, contaminated containment system components (e.g.,
1210			s, etc.), contaminated subsoils and structures, and equipment
1211			ted with waste and leachate; and, if disposed of in the State of Illinois,
1212			them at a disposal site permitted by the Agency under the Act.
1213		dispose of	unem at a disposar site perimited by the rigoroy under the rich
1214	b)	If closure i	s not to be by removal, the owner or operator mustshall comply with
1215	٥,		ments of Subpart C and mustshall:
1216			and of Supplied and analysis
1217		1) Eli	minate free liquids by removing liquid wastes or solidifying the
1218		,	naining wastes and waste residues.
1219			
1220		2) Sta	bilize remaining wastes to a bearing capacity sufficient to support final
1221		cov	
1222			
1223		3) Co	ver the surface impoundment unit with a final cover consisting of at
1224		leas	st a 2-foot-thick2-foot thick layer of compacted clay with a
1225		per	meability of no more than $1 \times 10^{-7}$ centimeters per second and designed
1226			constructed to:
1227			
1228		A)	Provide long-term minimization of the migration of liquids through
1229			the closed impoundment unit;
1230			
1231		B)	Function with minimum maintenance;
1232			
1233		<b>C</b> )	Promote drainage and minimize erosion or abrasion of the final
1234			cover; and
1235			
1236		D)	Accommodate settling and subsidence so that the cover's integrity
1237			is maintained.
1238			
1239	c)		ste residues or contaminated materials are left in place at final closure,
1240			or operator mustshall comply with the requirements of Subpart C and
1241		<u>must</u> shall:	
1242			
1243			intain the integrity and effectiveness of the final cover, including
1244			king repairs to the cap as necessary to correct the effects of settling,
1245		sub	sidence, erosion, or other events;
1246		0) 3.5	
1247		2) Ma	intain and monitor the groundwater monitoring system; and

1248					
1249		3) Prevent run-on and run-off from eroding or otherwise damaging the final			
1250		cover.			
1251					
1252	(Sou	rce: Amended at 47 Ill. Reg, effective)			
1253					
1254		SUBPART G: ON-SITE WASTE PILES			
1255	G .4 .4				
1256	Section 615.	461 Applicability			
1257					
1258	-	applies to existing waste piles that are located wholly or partially within a setback			
1259	_	lated recharge area and that contain special waste or other waste generated on-site,			
1260	except that the	his Subpart does not apply to any existing waste pile that:			
1261					
1262	a)	Contains solely one or more of the following: hazardous waste, livestock waste,			
1263		landscape waste, or construction and demolition debris;			
1264					
1265	b)	Consists of sludge resulting from the treatment of wastewater from a Publicly			
1266		Owned Treatment Works (POTW) and the sludge pile is situated on an			
1267		underdrained pavement and operated in <u>compliance</u> accordance with the Act, 35			
1268		Ill. Adm. Code: Subtitle C and 35 Ill. Adm. Code: Subtitle G; or			
1269					
1270	c)	Is exempt from this Part <u>underpursuant to</u> Section 615.105.			
1271					
1272	(Sou	rce: Amended at 47 Ill. Reg, effective)			
1273					
1274	Section 615.462 Required Closure				
1275					
1276	A waste pile	is considered deemed to be a landfill and thereby subject to the closure requirements			
1277	of Subpart D	unless the operator can demonstrate to the Agency that the wastes are not			
1278	accumulated	over time for disposal. At the minimum, such demonstration <u>mustshall</u> include			
1279	photographs	, records, or other observable or discernable information, maintained on a yearly			
1280	basis, that show that within the preceding year the waste has been removed for utilization or				
1281	disposed of	elsewhere.			
1282					
1283	(Sou	rce: Amended at 47 Ill. Reg, effective)			
1284					
1285	Section 615.	463 Design and Operating Requirements			
1286					
1287	This Section	applies six months after the date of first applicability to For a waste pile not subject			
1288	to Section 62				
1289					
1290	a)	The owner or operator <u>mustshall</u> not cause or allow:			

1291			
1292		1)	Disposal or storage in the waste pile of liquids or materials containing free
1293			liquids; or
1294			
1295		2)	Migration and runoff of leachate into adjacent soil, surface water, or
1296			groundwater.
1297			
1298	b)	The v	vaste pile must comply with the following standards:
1299			
1300		1)	The waste pile must be under an impermeable membrane or cover that
1301			provides protection from precipitation;
1302		•	
1303		2)	The waste pile must be protected from surface water run-on; and
1304		•	
1305		3)	The waste pile must be designed and operated to control wind dispersal of
1306			waste by a means other than wetting.
1307			
1308	<del>c)</del>	This :	Section becomes applicable six months after the date of first applicability.
1309	. <del>.</del> .		
1310	(Sour	ce: An	nended at 47 Ill. Reg, effective)
1311	0 4 61 -	464 01	
1312	Section 615.	464 CI	osure
1313	TD1		
1314			or mustshall accomplish closure by removing and disposing of all wastes
1315			tem components (e.g., linersliners, etc). If disposed of in the State of
1316			ad containment system components must be disposed of at a disposal site
1317	permitted by	tne Age	ency under the Act.
1318	(C		
1319	(Sour	ce: Am	nended at 47 Ill. Reg, effective)
1320			
1321			SUBPART H: UNDERGROUND STORAGE TANKS
1322	Section (15	501 A	anling biller
1323	Section 615.	oui Ap	эрпсавшту
1324	T71-1- C-1	1!	4
1325			s to existing underground storage tanks that are located wholly or partially
1326			e or regulated recharge area and that contain special waste, except that this
1327	Subpart does	not app	ply to any existing underground storage tank that:
1328	-1	TTm A -	*Dureyont to 25 III. Adm. Code 721 110(a) must meet the recommendation
1329	a)		<u>rPursuant to</u> 35 Ill. Adm. Code 731.110(a) must meet the requirements set
1330			in 35 Ill. Adm. Code 731, unless the such a tank is excluded from those
1331		requii	rements <u>under pursuant to</u> 35 Ill. Adm. Code 731.110(b); or
1332	L)	Haal	fust have interim status on a DCD A namit under 25 III. Adm. Code: Subsiste
1333	b)	<u>mas</u>	fust have interim status or a RCRA permit under 35 Ill. Adm. Code: Subtitle

1334		G; or
1335		
1336	c)	Is exempt from this Part <u>underpursuant to</u> Section 615.105.
1337		
1338	(Sou	rce: Amended at 47 Ill. Reg, effective)
1339		
1340	Section 615.	502 Design and Operating Requirements
1341		
1342		operators of existing underground storage tanks that store special waste <u>mustshall</u>
1343 1344		uirements set forth in 35 Ill. Adm. Code 731. Such requirements must be met even are excluded from coverage under 35 Ill. Adm. Code 731 by 35 Ill. Adm. Code
1345		The exclusions set forth in 35 Ill. Adm. Code 731.110(b) do not apply to any
1346		I storage tank which stores special waste.
1347	0110-01-81-0 0110	s otorage tallia milion otoras special master
1348	(Sou	rce: Amended at 47 Ill. Reg, effective)
1349	(200)	,,
1350		SUBPART I: PESTICIDE STORAGE AND HANDLING UNITS
1351		
1352	Section 615.	.601 Applicability
1353		
1354	This Subpart	t applies to any existing unit for the storage and handling of pesticides that is located
1355	-	rtially within a setback zone or regulated recharge area and that:
1356	J 1	
1357	a)	Is operated for the purpose of commercial application; or
1358	,	
1359	b)	Stores or accumulates pesticides prior to distribution to retail sales outlets,
1360	,	including but not limited to a unit that is a warehouse or bulk terminal.
1361		č
1362	c)	Despite subsections Subsections (a) and (b) notwithstanding, this Subpart does not
1363	,	apply to any unit exempt <u>underpursuant to</u> Section 615.105.
1364		
1365	(Sou	rce: Amended at 47 Ill. Reg, effective)
1366	·	
1367	Section 615.	.602 Groundwater Monitoring
1368		
1369	The owner o	r operator mustshall comply with the requirements of Subpart B.
1370		
1371	(Sou	rce: Amended at 47 Ill. Reg, effective)
1372	•	
1373	Section 615.	.603 Design and Operating Requirements
1374		
1375	The owner o	r operator <u>must<del>shall</del></u> :
1376		

1377 1378	a)	Maintain a written record inventorying all pesticides stored or handled at the unit.
1379	b)	At least weekly when pesticides are being stored, inspect storage containers,
1380		tanks, vents, valves, and appurtenances for leaks or deterioration caused by
1381		corrosion or other factors. If a leak or deterioration is found in any of these
1382		devices, the owner or operator must immediately repair or replace the device.
1383		The owner or operator <u>mustshall</u> maintain a written record of all inspections
1384		conducted under this Section and of all maintenance relating to leaks and
1385		deterioration of these devices.
1386	2)	Store all containers containing mosticides within a mosticide secondary
1387 1388	c)	Store all containers containing pesticides within a pesticide secondary
1389		containment structure, if the such containers are stored outside of a roofed structure or enclosed warehouse. For the purpose of this subsection, a pesticide
1390		secondary containment structure is a structure that complies with the design
1391		standards set forth in 8 Ill. Adm. Code 255.
1392		standards set forth in 6 m. Adm. Code 255.
1393	d)	Maintain all written records required under this Section at the site. The owner or
1394	ω)	operator <u>mustshall</u> provide any such record to the Agency upon request.
1395		eperator and the many such record to the regency apon request
1396	(Board Note:	Owners or operators of facilities or units subject to this Part may also be subject to
1397		der 8 Ill. Adm. Code 255.)
1398	<u> </u>	
1399	(Source	ce: Amended at 47 Ill. Reg, effective)
1400		
1401	Section 615.6	604 Closure and Post-Closure Care
1402		
1403	The owner or	operator <u>mustshall</u> comply with the requirements of Subpart C.
1404	<b>(C</b>	A 1 1 477 H1 D CC 4'
1405	(Source	ce: Amended at 47 Ill. Reg, effective)
1406		CLIDDADT I. EEDTH IZED CTODACE AND HANDLING LINITS
1407 1408		SUBPART J: FERTILIZER STORAGE AND HANDLING UNITS
1409	Section 615 6	621 Applicability
1410	Section 013.0	721 Applicability
1411	This Subpart	applies to any existing unit for the storage and handling of fertilizers that is located
1412	-	tially within a setback zone or regulated recharge area and that:
1413	wholly of pur	tiany within a setouck zone of regulated recharge area and that.
1414	a)	Is operated for the purpose of commercial application; or
1415	<del></del> /	т. г г г г зүүлэмжэж, э.
1416	b)	Stores or accumulates fertilizers prior to distribution to retail sales outlets,
1417	,	including but not limited to a unit that is a warehouse or bulk terminal.
1418		
1419	c)	Despite subsections Subsections (a) and (b)-notwithstanding, this Subpart does not

1420	apply to any unit exempt under <del>pursuant to</del> Section 615.105.			
1421				
1422	(Sour	rce: Amended at 47 Ill. Reg, effective)		
1423				
1424	Section 615.	622 Groundwater Monitoring		
1425				
1426	The owner o	r operator mustshall comply with the requirements of Subpart B.		
1427	<b>/</b> 9	A 1 1 47 HI D		
1428	(Sou	rce: Amended at 47 Ill. Reg, effective)		
1429 1430	Section 615	.623 Design and Operating Requirements		
1430 1431	Section 013.	1025 Design and Operating Requirements		
1432	The owner o	r operator <u>must<del>shall</del></u> :		
1433	The owner o	r operator intestinant.		
1434	a)	Maintain a written record inventorying all fertilizers stored or handled at the unit.		
1435	,	, g		
1436	b)	At least weekly when fertilizers are being stored, inspect storage containers,		
1437		tanks, vents, valves, and appurtenances for leaks or deterioration caused by		
1438		corrosion or other factors. If a leak or deterioration is found in any of these		
1439		devices, the owner or operator mustshall immediately repair or replace the device		
1440		The owner or operator <u>mustshall</u> maintain a written record of all inspections		
1441		conducted under this Section and of all maintenance relating to leaks and		
1442		deterioration of these devices.		
1443	,			
1444	c)	Store all containers containing fertilizers (except anhydrous ammonia) within a		
1445		fertilizer secondary containment structure, if such containers are stored outside of		
1446 1447		a roofed structure or enclosed warehouse. For the purpose of this subsection, a fertilizer secondary containment structure is a structure that complies with the		
1447 1448		design standards set forth in 8 Ill. Adm. Code 255.		
1449		design standards set forth in 6 m. Adm. Code 255.		
1450	d)	Maintain all written records required under this Section at the site. The owner or		
1451	α)	operator mustshall provide any such record to the Agency upon request.		
1452				
1453	(Board Note	: Owners or operators of facilities or units subject to this Part may also be subject to		
1454	regulations u	under 8 Ill. Adm. Code 255).		
1455				
1456	(Sour	rce: Amended at 47 Ill. Reg, effective)		
1457				
1458	Section 615.	624 Closure and Post-Closure Care		
1459	TT!			
1460	The owner o	r operator mustshall comply with the requirements of Subpart C.		
1461	(C -	roos Amandad at 47 III. Dag		
1462	(Sou	rce: Amended at 47 Ill. Reg, effective)		

1463 1464 SUBPART K: ROAD OIL STORAGE AND HANDLING UNITS 1465 1466 Section 615.702 Required Closure of Units Located Within Minimum Setback Zones 1467 1468 a) ANo person must not shall cause or allow the operation within a minimum setback zone of any road oil storage and handling unit after January 10, 1994. Closure of a road oil storage handling 1469 1470 unit must be completed within three years. 1471 1472 Subsection (a) is effective two years after the effective date of this Part. Closure <del>b)</del> 1473 must be completed within three years after the effective date of this Part. 1474 (Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_) 1475 1476 1477 **Section 615.703 Groundwater Monitoring** 1478 1479 The owner or operator mustshall comply with the requirements of Subpart B. 1480 (Source: Amended at 47 Ill. Reg. , effective ) 1481 1482 1483 Section 615.704 Design and Operating Requirements for Above-Ground Storage Tanks 1484 1485 a) The owner or operator must<del>shall</del> not cause or allow: 1486 1487 1) Materials to be placed in a tank if such materials could cause the tank to rupture, leak, corrode, or otherwise fail. 1488 1489 1490 2) Uncovered tanks to be placed or operated so as to maintain less than 60 centimeters (2 feet) of freeboard unless: 1491 1492 1493 A) The tank is equipped with a containment structure (e.g., dike or 1494 trench), a drainage control system, or a diversion structure (e.g., 1495 standby tank); and 1496 1497 B) Such containment structure, drainage control system, or diversion 1498 structure has a capacity that equals or exceeds the volume of the 1499 top 60 centimeters (2 feet) of the tank. 1500 1501 3) Material to be continuously fed into a tank, unless the tank is equipped 1502 with a means to stop this inflow (e.g., a feed cutoff system or a bypass 1503 system to a standby tank). 1504 1505 4) Incompatible materials to be placed in the same tank.

1506			
1507		5)	Material to be placed in a tank that previously held an incompatible
1508		,	material unless the incompatible material has been washed from the tank.
1509			1
1510		6)	Ignitable or reactive material to be placed in a tank unless:
1511		,	
1512			A) The material is stored or treated in such a way that it is protected
1513			from any material or conditions that may cause it to ignite or react;
1514			or
1515			
1516			B) The tank is used solely for emergencies.
1517			,
1518	b)	The o	owner or operator mustshall provide and maintain primary containment for
1519	,		ank such that:
1520			
1521		1)	The tank has a minimum shell thickness that ensures that the tank will not
1522		,	fail (e.g., collapse or rupturei.e., collapse, rupture, etc.).
1523			
1524		2)	The tank is compatible with the material to be placed in the tank or the
1525		,	tank is lined with a substance that is compatible with the material to be
1526			placed in the tank.
1527			r
1528	c)	The o	owner or operator <u>mustshall</u> provide and maintain secondary containment for
1529	-/		ank that:
1530			
1531		1)	Is capable of containing the volume of the largest tank or 10% of the total
1532		-/	volume for all tanks, whichever is greater;
1533			, , , , , , , , , , , , , , , , , , , ,
1534		2)	Is constructed of material capable of containing a spill until cleanup
1535		-/	occurs (e.g., concrete or clay). The base of the secondary containment
1536			area must be capable of minimizing vertical migration of a spill until
1537			cleanup occurs (e.g., concrete or clay);
1538			, in the control of t
1539		3)	Has cover (e.g., crushed rock or vegetative growth) on earthen
1540		-,	embankments sufficient to prevent erosion; and
1541			F,
1542		4)	Isolates the tank from storm water drains and from combined storm water
1543		,	drains and sewer drains.
1544			
1545	d)	If inc	compatible materials are handled at the site, the owner or operator must
1546	/		ide secondary containment sufficient to isolate the units containing the
1547		-	mpatible materials must be provided.
1548			

1549 1550	e)	The o	owner or operator of a tank <u>must</u> shall also:
		1)	Test shove around tanks and associated mining avery five years for
1551 1552		1)	Test above-ground tanks and associated piping every five years for
1553			structural integrity.
1554		2)	Remove uncontaminated storm water runoff from the secondary
1555		2)	containment area immediately after a precipitation event.
1556			containment area infinediately after a precipitation event.
1557		3)	Handle contaminated storm water runoff in compliance accordance with 35
1558		3)	Ill. Adm. Code 302.Subpart A.
1559			III. Fidin. Code 302.5dopuit Fi.
1560		4)	Provide a method for obtaining a sample from each tank.
1561		•,	Trovide a mediod for octaming a sample from each aims
1562		5)	Install, maintain, and operate a material level indicator on each tank.
1563		<i>C</i> /	and the second s
1564		6)	When not in use, lock all devices (gauges and valves) that are used to
1565		- /	inspect levels in the tank. All such devices must be located within the
1566			containment structure.
1567			
1568	f)	This S	Section becomes applicable two years after the date of first applicability.
1569	,		
1570	(Source	e: Am	ended at 47 Ill. Reg, effective)
1571			
1572	SU	JBPAR	T L: DE-ICING AGENT STORAGE AND HANDLING UNITS
1573			
1574	Section 615.7	<b>722</b> Gr	oundwater Monitoring
1575			
1576	The owner or	operat	or <u>must</u> shall comply with the requirements of Subpart B.
1577			
1578	(Source	ce: Am	nended at 47 Ill. Reg, effective)
1579			
1580	Section 615.7	<b>'23 De</b>	sign and Operating Requirements
1581			
1582	a)		or facilities must comply with the following standards beginning two years
1583		after 1	the date of first applicability:
1584			
1585		1)	The base of the facility must be constructed of materials capable of
1586			containing de-icing agents ( <u>e.gi.e.</u> , bituminous or concrete pad).
1587			
1588		2)	The roof and walls of the facility must be constructed of materials capable
1589			of protecting the storage pile from precipitation and capable of preventing
1590			dissolved de-icing agents from entering into the adjacent soil, surface
1591			water, or groundwater. The walls of the facility must be constructed of

1592			materials compatible with the de-icing agents to be placed in the facility.
1593			Run-off from the roof must be diverted away from the loading pad.
1594			
1595		3)	All areas surrounding the storage pile, including but not limited to the
1596			loading pad, must be routinely inspected to determine whether any release
1597			of de-icing agents has occurred. Such areas <u>mustshall</u> be cleaned as
1598			necessary. Spilled de-icing agents must be placed back under the
1599			protective covering of the indoor storage pile. The storage pile must be
1600			reshaped as often as necessary to prevent leaching.
1601			
1602		4)	The integrity of the facility and loading pad must be maintained.
1603			
1604		5)	All areas surrounding the storage facility must be inspected daily to
1605			determine whether any release of de-icing agents has occurred. Spilled
1606			de-icing agents must be placed back into the storage facility.
1607			
1608	b)	Outd	loor facilities or units must comply with the following standards beginning
1609		two y	years after the date of first applicability:
1610			
1611		1)	An impermeable membrane or cover must be placed over all storage piles
1612			to protect the piles from precipitation and surface water run-on. The
1613			membrane or cover must prevent runoff and leachate from being generated
1614			by the outdoor storage piles. The piles must be formed in a conical shape,
1615			covered, and stored on a paved pad capable of preventing leachate from
1616			entering adjacent soil, surface water, or groundwater.
1617			
1618		2)	Surface drainage must be directed to prevent flow through the base of the
1619			storage piles. De-icing agents must not be stored where drainage may
1620			enter into water supplies, farm lands, or streams.
1621			
1622		3)	All areas surrounding the storage piles must be cleaned and must be
1623			inspected daily to determine whether any release of de-icing agents has
1624			occurred. Spilled de-icing agents must be placed back under the
1625			protective covering of the outdoor storage piles. The storage piles must be
1626			reshaped as often as necessary to prevent leaching.
1627			
1628		4)	The storage piles must be designed and operated to control wind dispersal
1629			of the product by means other than wetting.
1630			
1631	(Sour	ce: An	nended at 47 Ill. Reg, effective)
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